

CLAIMS

sub. a1
1 A heat source locator to be used in combination
with a light viewing device enabling one to view a light
5 outside the visible spectrum of a human, the heat source
locator comprising:

thermal detection means for detecting a thermal change
within a field of view, said thermal detection means having
a central axis within said field of view and an indicator
10 which indicates the sensing of a heat source; and

light emitting means for generating light, said light
emitting means having a light beam of a wavelength outside
the visible spectrum of a human, said light beam being
aligned generally parallel and closely adjacent to said
15 thermal detection means axis;

whereby an operator may locate a heat source by
sensing the presence of the heat source through the thermal
detection means and then locating the position of the
located heat source by directing the light beam from the
20 light emitting means while viewing the location with a
light viewing device.

2. The heat source locator of claim 1 further
comprising a second light emitting means, said second light
25 emitting means generating a beam of light in a visible
spectrum and being aligned generally parallel and closely
adjacent to said axis of said thermal detection means.

3. The heat source locator of claim 1 wherein said thermal detection means produces a visual indication of the sensing of a heat source.

5 4. The heat source locator of claim 1 wherein said thermal detection means produces an audible indication of the sensing of a heat source.

10 5. The heat source locator of claim 4 wherein said thermal detection means includes an earpiece speaker.

6. A heat source locator comprising;
a housing;

15 a thermal detector mounted within said housing to detect a heat source generally along a field of view; and
a light emitting device mounted within said housing positioned to emit a beam of light and generally centered along said thermal detector field of view;

20 whereby an operator may locate a heat source by sensing the presence of the heat source through the thermal detector and then locating the position of the heat source by directing the light beam from the light emitting device.

25 7. The heat source locator of claim 6 wherein said light emitting device produces visible light.

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8. The heat source locator of claim 6 wherein said light emitting devices produces light of a wavelength outside the visible spectrum of a human.

5 sub.a1 9. The heat source locator of claim 8 further comprising a second light emitting means, said second light emitting means generating a beam of light in a visible spectrum and being aligned generally parallel and closely adjacent to said thermal detection means linear direction of sensitivity.

10. The heat source locator of claim 6 wherein said thermal detection means produces a visual indication of the sensing of a heat source.

11. The heat source locator of claim 6 wherein said thermal detection means produces an audible indication of the sensing of a heat source.

12. The heat source locator of claim 11 wherein said thermal detection means includes an earpiece speaker.

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13. A heat source locator system comprising;
a thermal detector having a beam of sensitivity along
a central axis;

a light emitting device positioned to produce a beam
of light having a wavelength outside the visible spectrum
of a human and aligned generally along said thermal
detector beam of sensitivity central axis; and

a light viewing device adapted to enable a viewer to
view the light produced by said light emitting device,

whereby an operator may locate a heat source by
sensing the presence of the heat source through the thermal
detector and then locating the position of the heat source
by directing the light beam from the light emitting device
while viewing the location with the light viewing device.

14. The heat source locator of claim 13 further
comprising a second light emitting means, said second light
emitting means generating a beam of light in a visible
spectrum and being aligned generally parallel and closely
adjacent to said thermal detection means linear direction
of sensitivity.

15. The heat source locator of claim 13 wherein said
thermal detection means produces a visual indication of the
sensing of a heat source.

16. The heat source locator of claim 13 wherein said thermal detection means produces an audible indication of the sensing of a heat source.

5 17. The heat source locator of claim 16 wherein said thermal detection means includes an earpiece speaker.

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